

LISTING OF CLAIMS

1. **(Currently Amended)** A computer-implemented method comprising:
synchronizing inventory transaction information within a computerized inventory
management system, wherein
the computerized inventory management system comprises
a plurality of computer systems, and
an integration server,
the computer systems are configured to communicate with the integration server via a
network,
each of the computer systems is configured with at least one corresponding inventory
system of a plurality of inventory
systems,
the synchronizing is performed in response to a source inventory transaction,
the synchronizing is performed between any plurality of the plurality of inventory
systems, and
the synchronizing comprises
extracting inventory transaction information in a source format, wherein
the inventory transaction information comprises source inventory
transaction information,
the source format is associated with a source inventory system,
the source inventory system is one of the plurality of inventory
systems, and
~~the source inventory transaction is an inventory transaction~~
~~occurring in the source inventory system,~~
the source inventory transaction is executable by the source
inventory system, at least in part, by virtue of the inventory
transaction information in the source format being in the
source format,

converting, at the integration server, the inventory transaction information in the source format into inventory transaction information in an intermediate format,

converting, at the integration server, the inventory transaction information in the intermediate format into inventory transaction information in a target format, wherein

the target format corresponds to a target inventory system, and

the target inventory system is another of the plurality of inventory systems,

pushing the inventory transaction information in the target format to the target inventory system, and

generating a target inventory transaction in the target inventory system, wherein

the generating the target inventory transaction comprises

determining whether the target inventory transaction is

appropriate to the target inventory system, wherein

the determining is based, at least in part, on

whether the target inventory transaction is

executable by the target inventory

system, and

whether executing the target inventory

transaction on the target inventory

system accomplishes a result on the

target inventory system equivalent to

a result on the source inventory

system accomplished by executing the

source inventory transaction on the

source inventory system, and

if the target inventory transaction is executable by the target

inventory system, the target inventory transaction is

executable by the target inventory system, at least in part,
by virtue of the inventory transaction information in the
target format being in the target format.

~~the target inventory transaction is based, at least in part, on~~
~~the inventory transaction information in the target~~
~~format, and~~

~~performing the target inventory transaction comprises~~
~~committing the inventory transaction information in~~
~~the target format to target inventory~~
~~transaction information of the target~~
~~inventory system.~~

2. (Previously Presented) The computer-implemented method of Claim 1, further comprising:
using the inventory transaction information in the target format to perform at least one computer-implemented act from a set of computer-implemented acts comprising:
creating a new inventory transaction record in the target inventory system; and
updating an existing inventory transaction record in the target inventory system.
3. (Previously Presented) The computer-implemented method of Claim 1, further comprising:
extracting inventory transaction information in a second source format that is associated with a second source inventory system that is distinct from the source inventory system, wherein
the second source inventory system is another of the inventory systems;
converting the inventory transaction information in the second source format into inventory transaction information that is in the intermediate format;
converting the inventory transaction information in the intermediate format into inventory transaction information in the target format; and

using the inventory transaction information in the target format to perform at least one computer-implemented act from a set of computer-implemented acts comprising:
creating a new inventory transaction record in the target inventory system; and
updating an existing inventory transaction record in the target inventory system.

4. (Previously Presented) The computer-implemented method of Claim 1, wherein the intermediate format comprises a list of inventory transactions class with a hierarchy of data elements, wherein the hierarchy of data elements comprises a plurality of inventory transaction elements which comprise other elements.
5. (Previously Presented) The computer-implemented method of Claim 4, wherein each of the plurality of inventory transaction elements comprises:
an inventory transaction identifier;
a base data element for defining:
 a transaction comments element;
 a transaction date;
 a transaction quantity of items;
 a transaction time;
 a transaction type code; and
 a transaction unit of measure code;
a list of identifier data element for defining identifier data that is specific to a product or item;
a location data element for defining a destination location data element and a source location data element;
a related product element for defining a product or item identifier;
a related document data element for defining a related purchase order element; and
a custom data element for defining customized attributes for the inventory transaction information.

6. (Previously Presented) The computer-implemented method of Claim 5, wherein:
 - the identifier data element comprises a product serial number or an item serial number;
 - the destination location data element comprises a destination bucket code element and a destination inventory location identifier element;
 - the source location data element comprises a source bucket code element and a source inventory location identifier; and
 - the related purchase order element comprises a purchase order element for defining purchase-order-type elements that comprise:
 - a common object row identifier element;
 - a purchase order base data element wherein the purchase order base data element comprises a purchase order number;
 - a list of purchase order line item element, wherein the list of purchase order line item element comprises a plurality of purchase order line items;
 - and
 - a purchase order custom data element.
7. (Previously Presented) The computer-implemented method of Claim 6, wherein each of the plurality of purchase order line items comprises:
 - a purchase order line item number identifier element;
 - a purchase order line item base data element; and
 - a purchase order line item custom data element.
8. (Previously Presented) The computer-implemented method of Claim 7, wherein the purchase order line item base data element comprises a purchase order line item number.
9. **(Currently Amended)** A non-transitory computer-readable medium carrying one or more sequences of instructions for managing inventory, wherein execution of the one or more sequences of instructions by one or more processors causes the one or more processors to perform:

synchronizing inventory transaction information within a computerized inventory management system, wherein
the computerized inventory management system comprises
a plurality of computer systems, and
an integration server,
the computer systems are configured to communicate with the integration server via a network,
each of the computer systems is configured with at least one corresponding inventory system of a plurality of inventory systems,
the synchronizing is performed in response to a source inventory transaction,
the synchronizing is performed between any plurality of the plurality of inventory systems, and
the synchronizing comprises
extracting inventory transaction information in a source format,
wherein
the inventory transaction information comprises source inventory transaction information,
the source format is associated with a source inventory system,
the source inventory system is one of the plurality of inventory systems, and
~~the source inventory transaction is an inventory transaction occurring in the source inventory system,~~
the source inventory transaction is executable by the source inventory system, at least in part, by virtue of the inventory transaction information in the source format being in the source format,
converting, at the integration server, the inventory transaction information in the source format into inventory transaction information in an intermediate format,

converting, at the integration server, the inventory transaction information in the intermediate format into inventory transaction information in a target format, wherein the target format corresponds to a target inventory system, and the target inventory system is another of the plurality of inventory systems,

pushing the inventory transaction information in the target format to the target inventory system, and generating a target inventory transaction in the target inventory system, wherein

the generating the target inventory transaction comprises

determining whether the target inventory

transaction is appropriate to the target

inventory system, wherein

the determining is based, at least in part, on

whether the target inventory

transaction is executable by the

target inventory system, and

whether executing the target

inventory transaction on the

target inventory system

accomplishes a result on the

target inventory system

equivalent to a result on the

source inventory system

accomplished by executing the

source inventory transaction

on the source inventory system,

and

if the target inventory transaction is executable by the target inventory system, the target inventory transaction is executable by the target inventory system, at least in part, by virtue of the inventory transaction information in the target format being in the target format.

~~the target inventory transaction is based, at least in part, on the inventory transaction information in the target format, and~~

~~performing the target inventory transaction comprises committing the inventory transaction information in the target format to target inventory transaction information of the target inventory system.~~

10. (Currently Amended) The non-transitory computer-readable medium of Claim 9, further comprising:
using the inventory transaction information in the target format to perform at least one computer-implemented act from a set of computer-implemented acts comprising:
creating a new inventory transaction record in the target inventory system; and
updating an existing inventory transaction record in the target inventory system.
11. (Currently Amended) The non-transitory computer-readable medium of Claim 9, further comprising:
extracting inventory transaction information in a second source format that is associated with a second source inventory system that is distinct from the source inventory system, wherein
the second source inventory system is another of the inventory systems;

converting the inventory transaction information in the second source format into
inventory transaction information that is in the intermediate format;
converting the inventory transaction information in the intermediate format into
inventory transaction information in the target format; and
using the inventory transaction information in the target format to perform at least
one computer-implemented act from a set of computer-implemented acts
comprising:
creating a new inventory transaction record in the target inventory system; and
updating an existing inventory transaction record in the target inventory
system.

12. **(Currently Amended)** The non-transitory computer-readable medium of Claim 9, wherein the intermediate format comprises a list of inventory transactions class with a hierarchy of data elements.
13. **(Currently Amended)** The non-transitory computer-readable medium of Claim 12, wherein the hierarchy of data elements comprises a plurality of inventory transaction elements which comprise other elements.
14. **(Currently Amended)** The non-transitory computer-readable medium of Claim 13, wherein each of the plurality of inventory transaction elements comprises an inventory transaction identifier.
15. **(Currently Amended)** The non-transitory computer-readable medium of Claim 13, wherein each of the plurality of inventory transaction elements comprises a base data element for defining:
 - a transaction comments element;
 - a transaction date;
 - a transaction quantity of items;
 - a transaction time;
 - a transaction type code; and
 - a transaction unit of measure code.

16. **(Currently Amended)** The non-transitory computer-readable medium of Claim 13, wherein each of the plurality of inventory transaction elements comprises a list of identifier data element for defining identifier data that is specific to a product or item.
17. **(Currently Amended)** The non-transitory computer-readable medium of Claim 13, wherein each of the plurality of inventory transaction elements comprises a location data element for defining a destination location data element and a source location data element.
18. **(Currently Amended)** The non-transitory computer-readable medium of Claim 13, wherein each of the plurality of inventory transaction elements comprises a related product element for defining a product or item identifier.
19. **(Currently Amended)** The non-transitory computer-readable medium of Claim 13, wherein each of the plurality of inventory transaction elements comprises a related document data element for defining a related purchase order element.
20. **(Currently Amended)** The non-transitory computer-readable medium of Claim 13, wherein each of the plurality of inventory transaction elements comprises a custom data element for defining customized attributes for the inventory transaction information.
21. **(Currently Amended)** The non-transitory computer-readable medium of Claim 16, wherein the identifier data element comprises a product serial number or an item serial number.
22. **(Currently Amended)** The non-transitory computer-readable medium of Claim 17, wherein the destination location data element comprises a destination bucket code element, which in turn comprises a destination inventory location identifier.
23. **(Currently Amended)** The non-transitory computer-readable medium of Claim 17, wherein the source location data element comprises a source bucket code element, which in turn comprises a source inventory location identifier.

24. **(Currently Amended)** The non-transitory computer-readable medium of Claim 19, wherein the related purchase order element comprises a purchase order element for defining purchase order elements that comprise:
- a common object row identifier element;
 - a purchase order base data type element;
 - a list of purchase order line item element; and
 - a purchase order custom data element.
25. **(Currently Amended)** The non-transitory computer-readable medium of Claim 24, wherein the purchase order base data type element comprises a purchase order number.
26. **(Currently Amended)** The non-transitory computer-readable medium of Claim 24, wherein the list of purchase order line item element comprises a plurality of purchase order line items.
27. **(Currently Amended)** The non-transitory computer-readable medium of Claim 26, wherein each of the plurality of purchase order line items comprises:
- a purchase order line item number identifier element;
 - a purchase order line item base data element; and
 - a purchase order line item custom data element.
28. **(Currently Amended)** The non-transitory computer-readable medium of Claim 27, wherein the purchase order line item base data element comprises a purchase order line item number.
29. **(Currently Amended)** A computerized inventory management system, comprising:
an integration server comprising
- a processor, and
 - a computer-readable storage medium,
- the integration server is configured to communicate to a plurality of computer systems via a network,

each of the computer systems is configured with at least one corresponding inventory system
of a plurality of inventory systems,

the computer-readable storage medium comprises

instructions, when executed by the processor, for synchronizing inventory transaction
information within the computerized inventory management system, wherein
the instructions for synchronizing are configured to perform in response to a
source inventory transaction, wherein
the synchronizing is performed between any plurality of the plurality
of inventory systems, and

the instructions for synchronizing comprise

instructions, when executed by the processor, for extracting inventory
information in a source format, wherein
the inventory transaction information comprises source
inventory transaction information,
the source format is associated with a source inventory system,
the source inventory system is one of the plurality of inventory
systems, and

~~the source inventory transaction is an inventory transaction
occurring in the source inventory system,~~

the source inventory transaction is executable by the source
inventory system, at least in part, by virtue of the
inventory transaction information in the source
format being in the source format,

instructions, when executed by the processor, for converting the
inventory transaction information in the source format into
inventory transaction information in intermediate format,

instructions, when executed by the processor, for converting the
inventory transaction information in the intermediate format
into inventory transaction information in a target format,
wherein

the target format corresponds to a target inventory system, and
the target inventory system is another of the plurality of
inventory systems.

instructions, when executed by the processor, for pushing the
inventory transaction information in the target format to the
target inventory system, and
instructions, when executed by the processor, for generating a target
inventory transaction in the target inventory system, wherein
the generating the target inventory transaction comprises
determining whether the target inventory
transaction is appropriate to the target
inventory system, wherein
the determining is based, at least in part, on
whether the target inventory
transaction is executable by the
target inventory system, and
whether executing the target
inventory transaction on the
target inventory system
accomplishes a result on the
target inventory system
equivalent to a result on the
source inventory system
accomplished by executing the
source inventory transaction
on the source inventory system,
and
if the target inventory transaction is executable by the
target inventory system, the target inventory
transaction is executable by the target inventory
system, at least in part, by virtue of the inventory
transaction information in the target format being
in the target format.
~~the target inventory transaction is based, at least in part, on~~
~~the inventory transaction information in the target~~
~~format, and~~

~~performing the target inventory transaction comprises
committing the inventory transaction information in
the target format to target inventory
transaction information of the target
inventory system.~~

30. (Previously Presented) The data structure of Claim 29, wherein each of the plurality of inventory transaction elements comprises:
- an inventory transaction identifier;
 - a base data element for defining:
 - a transaction comments element;
 - a transaction date;
 - a transaction quantity of items;
 - a transaction time;
 - a transaction type code; and
 - a transaction unit of measure code;
 - a list of identifier data element for defining identifier data that is specific to a product or item;
 - a location data element for defining a destination location data element and a source location data element;
 - a related product element for defining a product or item identifier;
 - a related document data element for defining a related purchase order element; and
 - a custom data element for defining customized attributes for the inventory transaction information.
31. (Previously Presented) The data structure of Claim 30, wherein:
- the identifier data element comprises a product serial number or an item serial number;
 - the destination location data element comprises a destination bucket code element and a destination inventory location identifier element;
 - the source location data element comprises a source bucket code element and a source inventory location identifier; and

- the related purchase order element comprises a purchase order element for defining purchase-order-type elements that comprise:
- a common object row identifier element;
 - a purchase order base data element wherein the purchase order base data element comprises a purchase order number;
 - a list of purchase order line item element, wherein the list of purchase order line item element comprises a plurality of purchase order line items;
 - and
 - a purchase order custom data element.
32. (Previously Presented) The data structure of Claim 31, wherein each of the plurality of purchase order line items comprises:
- a purchase order line item number identifier element;
 - a purchase order line item base data element; and
 - a purchase order line item custom data element.
33. (Previously Presented) The data structure of Claim 32, wherein the purchase order line item base data element comprises a purchase order line item number.